UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Rey 1459

P O Box 1450 Alexandria, Virgima 22313-1450 www.uspto.gov

# NOTICE OF ALLOWANCE AND FEE(S) DUE

2292 7590 12/31/2009 BIRCH STEWART KOLASCH & BIRCH PO BOX 747 FALLS CHURCH, VA 22040-0747 EXAMINER

MOK, ALEX W

ART UNIT PAPER NUMBER

2814

DATE MAILED: 12/31/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/553,975	10/19/2005	Young Kyu Son	3449-0545PUS1	8239		
TITLE OF INVENTION: STEPPING MOTOR BEING CONVENIENTLY ASSEMBLED						

 APPLN TYPE
 SMALLENTITY
 ISSUE FEE DUE
 PUBLICATION FEE DUE
 PREV. PAID ISSUE FEE
 TOTAL FEES) DUE
 DATE DUE

 nonprovisional
 NO
 \$1510
 \$300
 \$0
 \$1810
 03/31/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further c indicated unless correcte maintenance fee notificat	form should be used for correspondence includir d below or directed oth ions.	or tran ig the l icrwise	smitting the ISSU Patent, advance or in Block 1, by (a					
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				No Fe pa ha	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
2292	7590 12/31	/2009					e of Mailing or Transı	
PO BOX 747	ART KOLASCH H, VA 22040-0747		RCH	I h Str ade tra	ereby certify that that the service values Postal Service valuessed to the Mainsmitted to the USP	is Fee( vith su I Stop TO (57	s) Transmittal is being fficient postage for firs ISSUE FEE address I) 273-2885, on the da	deposited with the United class mail in an envelope above, or being facsimile te indicated below.
				Г				(Depositor's name)
								(Signature)
								(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVENTO	R	ATTC	RNEY DOCKET NO.	CONFIRMATION NO.
10/553,975	10/19/2005			Young Kyu Son		3449-0545PUS1		8239
TITLE OF INVENTION:		EING	CONVENIENTL					6239
111111 01 11111111111	DILITE O MOTOR			T TEODERALIS				
APPLN. TYPE	SMALL ENTITY	IS	SUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO		\$1510	\$300	\$0		\$1810	03/31/2010
EXAMI	INER		ART UNIT	CLASS-SUBCLASS	٦			
MOK, Al	LEX W		2834	310-04900R	J			
Change of corresponde CFR 1.363).	nce address or indicatio	n of "Fe	ee Address" (37	2. For printing on the	patent front page, li	st		
				(I) the names of up to or agents OR, alternal	o 3 registered pater		neys I	
Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.				(2) the name of a single firm (having as a member a 2				
Tee Address" indip PTO/SB/47; Rev 03-02 Number is required.	cation (or "Fee Address 2 or more recent) attach	" Indica ed. Use	ation form e of a Customer	registered attorney or 2 registered patent att listed, no name will b	agent) and the nam orneys or agents. If e printed.	nes of u	up to ne is 3	
3. ASSIGNEE NAME AN	ND RESIDENCE DATA	A ТО В	E PRINTED ON	THE PATENT (print or ty	ype)			
PLEASE NOTE: Unle recordation as set forth	ess an assignee is ident in 37 CFR 3.11. Com	ified be	elow, no assignee of this form is NO	data will appear on the T a substitute for filing ar	patent. If an assign assignment.	ee is i	dentified below, the do	cument has been filed for
(A) NAME OF ASSIC				(B) RESIDENCE: (CIT				
Please check the appropri	ate assignee category or	catego	ries (will not be pr	inted on the patent):	Individual 🗆 C	orporat	ion or other private gro	up entity Government
4a. The following fee(s) a	re submitted:		41	o. Payment of Fee(s): (Ple	ase first reapply a	ny pre	viously paid issue fee s	hown above)
☐ Issue Fee				A check is enclosed.				
Publication Fee (No small entity discount permitted)  Advance Order - # of Copies			ed)	☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any				
Advance Order - #	of Copies			overpayment, to Dep	osit Account Numb	er	(enclose ar	extra copy of this form).
	SMALL ENTITY state	ıs. See	37 CFR I.27.	☐ b. Applicant is no lo				
NOTE: The Issue Fee and interest as shown by the re	Publication Fee (if requeerly of the Publication Fee	uired) v tes Pate	will not be accepted and Trademark	d from anyone other than Office.	the applicant; a reg	istered	attorney or agent; or th	e assignee or other party ir
Authorized Signature					Date			
Typed or printed name					Registration N			
This collection of informs an application. Confident submitting the completed this form and/or suggestic Box 1450, Alexandria, Vi Alexandria, Virginia 2231	ation is required by 37 C iality is governed by 35 application form to the ons for reducing this but reginia 22313-1450. DC (3-1450.	FR 1.3 U.S.C. USPT rden, sh O NOT	11. The informatic 122 and 37 CFR O. Time will vary hould be sent to the SEND FEES OR	on is required to obtain or 1.14. This collection is e depending upon the ind e Chief Information Offic COMPLETED FORMS	retain a benefit by stimated to take 12 ividual case. Any co cer, U.S. Patent and TO THIS ADDRES:	the pub minute ommen Trader S. SEN	lic which is to file (and s to complete, including ts on the amount of tin nark Office, U.S. Depa D TO: Commissioner f	by the USPTO to process g gathering, preparing, and the you require to complete rtment of Commerce, P.O. or Patents, P.O. Box 1450

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

OMB 0651-0033 PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



# UNITED STATES PATENT AND TRADEMARK OFFICE

#### UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

P O Box 1450 Alexandra, Virgima 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/553,975	10/19/2005	Young Kyu Son	3449-0545PUS1	8239	
2292 75	90 12/31/2009		EXAM	UNER	
BIRCH STEWA	RT KOLASCH & B	MOK, ALEX W			
PO BOX 747		ART UNIT	PAPER NUMBER		
FALLS CHURCH	, VA 22040-0747	2834			
			DATE MAILED: 12/31/2000		

.....

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 402 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 402 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

#### Application No. 10/553 975 SON ET AL. Notice of Allowability Examiner Art Unit ALEX W. MOK 2834

Applicant(s)

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to 10/30/09.
- 2. The allowed claim(s) is/are 40-63.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - b) ☐ Some\* c) ☐ None of the: a) X All
    - 1. T Certified copies of the priority documents have been received.
    - 2. Certified copies of the priority documents have been received in Application No.
      - 3. \( \overline{\text{ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1) hereto or 2) to Paper No./Mail Date
  - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. 

DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

- 1. | Notice of References Cited (PTO-892)
- 2. Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08).
- Paper No./Mail Date 7/23/09, 12/8/09 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date
- 7. X Examiner's Amendment/Comment
- 8. T Examiner's Statement of Reasons for Allowance
- Other \_\_\_\_\_.

/Quyen Leung/

Supervisory Patent Examiner, Art Unit 2834

Art Unit: 2834

# EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

In line 19 of claim 56, the term "third **potion**" has been changed to —third **portion**--.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ALEX W. MOK whose telephone number is (571)272-9084. The examiner can normally be reached on 7:30-5:00 Eastern Time, 1st Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Quyen P. Leung can be reached on (571) 272-8188. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/553,975 Page 3

Art Unit: 2834

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Quyen Leung/ Supervisory Patent Examiner, Art Unit 2834

/A. W. M./ Examiner, Art Unit 2834